

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
311			75	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	25	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4, Underreamer	AT
311			83	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	17	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4, Underreamer	AT
312			80	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4 Underreamer	AT
115			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4, with many oolitic grains	AT
162			91	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	9	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4, ...	AT
154			60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JC
288			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JC
206			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JC
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/ Platy		Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D		

Wood/Lignite Fossiles abundances:
 N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

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Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/ lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
170			70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	TT
173			70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	TT
288			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	TT
206			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	TT
57			99	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	1	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	AT
230			80	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	TT
168			97	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	AT
159			70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	TT
196			70	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4	JA
267			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4	JA
175			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4	JA
162			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4	X
139			93	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	7	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4mm	AT
95			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	> 4, Underwater.	X

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
164			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	TT
57			99	Soft / Semi Hard	Yes / No	Angular/Round/Platy	1	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
178			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	TT
267			97	Soft / Semi Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
95			97	Soft / Semi Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
230			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
139			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
196			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
168			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
178			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
170			93	Soft / Semi Hard	Yes / No	Angular/Round/Platy	7	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
164			96	Soft / Semi Hard	Yes / No	Angular/Round/Platy	4	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
173			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
312			83	Soft / Semi Hard	Yes / No	Angular/Round/Platy	17	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	TT

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
263			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
265			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
267			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
272			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
274			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
280			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
282			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	JG
231			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	AT
289			99	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	1	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	AT
286			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
217			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	TT
219			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	TT
215			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
223			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
233			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
227			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
229			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	TT
235			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	TT
238			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	TT
240			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
253			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
255			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
258			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	TT
260			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	TT
265			97	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
267			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
269			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG
272			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	JG

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
274			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	Ja
280			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
282			97	Soft / Semi Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	Ja
286			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	Ja
284			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		
				Soft / Semi Hard	Yes / No	Angular/Round/Platy		Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D		

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
219			97	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	JG
227			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
255			99	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	1	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	AT
231			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
229			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
263			60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4	AT
233			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
238			99	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	1	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	AT
235			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
240			90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
269			99	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	1	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	AT
250			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT
258			91	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	9	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	AT
260			85	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	15	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	TT

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			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
203			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
203			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	TT
205			93	Soft / Semi Hard	Yes / No	Angular/Round/Platy	7	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
205			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	TT
207			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	TT
207			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
209			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	JA
209			97	Soft / Semi Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
211			97	Soft / Semi Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
211			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	TT
213			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JA
215			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	TT
213			93	Soft / Semi Hard	Yes / No	Angular/Round/Platy	7	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	AT
223			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	TT

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. / Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
184			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4 mm	TT
184			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 mm	TT
182			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	JG
187			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
189			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	TT
189			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
193			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
193			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	TT
195			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	TT
199			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	JG
207			65	Soft / Semi Hard	Yes / No	Angular/Round/Platy	35	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
195			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
199			88	Soft / Semi Hard	Yes / No	Angular/Round/Platy	12	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AT
201			60	Soft / Semi Hard	Yes / No	Angular/Round/Platy	40	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4	TT

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
144			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
148			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
161			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AY
153			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
163			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
167			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
169			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
172			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-K	TT
174			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	TT
174			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
187			75	Soft / Semi Hard	Yes / No	Angular/Round/Platy	25	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	74	AY
177			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AY
182			92	Soft / Semi Hard	Yes / No	Angular/Round/Platy	8	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	AY
177			93	Soft / Semi Hard	Yes / No	Angular/Round/Platy	7	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	AY

Wood/Lignite Fossils abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
155			98	Soft / Semi Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	AT
158			98	Soft / Semi Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	AT
155			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4	JG
158			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	AT
163			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	TT
167			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	TT
122			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
161			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	AT
138			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-8mm	TT
136			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	4-4	JG
172			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	TT
140			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	TT
169			75	Soft / Semi Hard	Yes / No	Angular/Round/Platy	25	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm, lithified sandstone	AT
142			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-8mm	TT

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
126			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	TT
132			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	TT
132			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	AT
134			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	TT
134			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	TT
136			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	TT
138			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	TT
140			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	TT
142			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	TT
148			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	AT
150			98	Soft / Semi Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	AT
150			98	Soft / Semi Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	AT
144			82	Soft / Semi Hard	Yes / No	Angular/Round/Platy	18	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	AT
153			96	Soft / Semi Hard	Yes / No	Angular/Round/Platy	4	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	AT

Wood/Lignite Fossiles abundances:

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IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
110			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4	JG
112			70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	30	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
112			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4	JG
110			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4 mud fraction includes sandy silt.	AY
114			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
116			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4	TT
116			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 sandy silt.	AY
120			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
114			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	70	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4	JG
122			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4 7-4	TT
124			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
124			90	Soft / Semi Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4	TT
126			80	Soft / Semi Hard	Yes / No	Angular/Round/Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	TT
130			88	Soft / Semi Hard	Yes / No	Angular/Round/Platy	12	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	7-4	AY

Wood/Lignite Fossils abundances:

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Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
86			c.80	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	c.20	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4 mm	TT
90			98	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	2	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4 mm	JG
98			100	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4	JG
96			c.80	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	c.20	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4 mm	TT
98			c.90	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	c.10	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4 mm	TT
120			80	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm	AT
100			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4mm	AT
100			55	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	45	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm	TT
102			50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	50	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4 mm	TT
104			40	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	60	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4 mm	TT
75			95	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4mm	AT
106			85	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	15	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4mm	AT
108			82	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	18	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	>4mm	AT
108			80	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	20	Soft / Semi Hard	Yes / No	Angular/Round/ Platy	N/R/F/ C/A/D	N/R/F/ C/A/D	1-4mm	AT

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

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Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
94			90	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm 8 shiny s. 1 carbonate.	TT
94			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm 5 shiny s.	TT
96			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm 7 shiny s.	TT
102			95	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm 2 shiny s.	TT
104			90	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	TT
82			97	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm 2 shiny s.	TT
73			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-3mm	A.T.
77			97	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	JG
75			88	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	12	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	A.T.
80			98	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
86			89	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	11	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	A.T.
84			79	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	21	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm 2 slicken line	TT
84			c.80	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	c.20	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm 16. carbonate vein	TT
106			90	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	10	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	A.Y.

Wood/Lignite Fossils abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
64			98	Soft / Semi Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm, silt	AY
66			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	JG
48			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	JG
46			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	JG
68			98	Soft / Semi Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm	AY
66			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4	JG
68			75	Soft / Semi Hard	Yes / No	Angular/Round/Platy	25	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm [Sst rich] 8 shyns. 1 calcite v.	TT
71			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm 10. shiny surface 1 calcite v.	T7
77			95	Soft / Semi Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm 8 shiny surface	T7
73			94	Soft / Semi Hard	Yes / No	Angular/Round/Platy	6	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm silt.	AY
90			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm grains covered by matrix	JG
80			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm shyns. in 3g.	T7
92			97	Soft / Semi Hard	Yes / No	Angular/Round/Platy	3	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4m shiny s. in 9g grains	T7
92			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm shiny s. in 4 grains	T7

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IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
45			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	shiny surface in 11 grains red grains are included	TT
47			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm, mud/silt	A.Y.
46			99.5	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0.5	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm shiny surface in 5 grains	T.T.
47			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm / shiny surfaces	TG
49			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm / shiny surfaces in 11 grains calcite veins in 2 grains	TT
51			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm, silt/mud	A.Y.
50			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm ^{difficult} mud to decide litho due to powders shiny in 11 grains, 1 calcite vein	TT
51			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm hard to decide lithology because of powders 12 shiny surface, 5 calcite veins	TT
62			95	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	5	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm hard to decide lithology shiny surface in 5 grains	TT
58			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm ^{hard sst.} calcite vein in 8 grains shiny surface in 24 grains	TT
54			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt with carbonate veins	AT
62			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt with carbonate veins	AT
56			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt with carbonate veins	AT
64			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt with carbonate veins	AT

Wood/Lignite Fossils abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant

IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
27			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt	A.Y.
31			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt	A.Y.
45			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	4mm, silt/mud	A.Y.
32			99	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	1	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm silt	A.Y.
49			98.1	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	2.1	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	T.T.
34			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt/mud	A.Y.
35			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm silt/mud	A.Y.
36			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt/mud	A.Y.
58			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	T.T.
37			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, silt/mud	A.Y.
40			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 / mud	JG
56			98	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	2	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	T.T.
43			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, mud/silt	A.Y.
52			100	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi-Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm 6 siltstone fibre and 1 calcite vein	T.T.

Wood/Lignite Fossiles abundances:

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IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
26			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 mm	JG
30			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 mm / shiny surfaces	JG
29			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 mm	A.Y.
19			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm. Silt with rare ostracoda fossil.	A.Y.
20			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm mud from cement (covered by powder)	A.Y.
24			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm the same as the above many cements	T.T.
21			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm Difficult to distinguish mud from cement	A.Y.
52			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm.	T.T.
42			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 mm Difficult to decide lithology, because the grains are covered by powder	T.T.
41			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm silt-mud	A.Y.
46			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	JG
43			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm mud-rich	A.Y.
54			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	>4mm	A.Y.
24			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 mm silt	A.Y.

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IODP Exp. 338 Cuttings Description Sheet (macroscopic)

NO. Date: / /12 OBSERVER:

Sample ID	From (mbsf)	To (mbsf)	Mudstone / siltstone				Sandstone & Siltstone				Wood/lignite	Fossils	Visual description	
			(%)	Consolidation	Structures	Shape	(%)	Consolidation	Structures	Shape				
35			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	Mudstone with minor siltstone > 4mm.	A.Y.
36			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	T.T.
42			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	T.T.
40			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm	A.Y.
44			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm, with rare lithic fragments	A.Y.
28			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm with rare lithic fossil (quartz) fragments	T.T.
48			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm with rare R2 fragments	T.T.
25			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm fraction, but fragmentary to 1-4mm	T.T.
25			99	Soft / Semi Hard	Yes / No	Angular/Round/Platy	17 R2 fragment	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1 < φ < 4 mm mud with a few R2 fragment	sandy silt mud
20			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm. Silty	A.Y.
21			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm. Silty.	A.Y.
41			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4mm. Muddy	A.Y.
50			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	> 4mm. Silty.	A.Y.
22			100	Soft / Semi Hard	Yes / No	Angular/Round/Platy	0	Soft / Semi Hard	Yes / No	Angular/Round/Platy	N/R/F/C/A/D	N/R/F/C/A/D	1-4 mm	JG

Wood/Lignite Fossiles abundances:

N = Not observed, R = Rare, F = Few, C = Common, A = Abundant, D = Dominant